RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number:	10/576.528
Source:	IFWP.
Date Processed by STIC:	5/1/06
•	

ENTERED



IFWP

RAW SEQUENCE LISTING DATE: 05/01/2006
PATENT APPLICATION: US/10/576,528 TIME: 10:51:53

Input Set: A:\C1-SQ Listing-19 Apr 2006.txt
Output Set: N:\CRF4\05012006\J576528.raw

C> 10 C> 10 10 12 14	4	<pre><110> APPLICANT: Schnorr, Kirk Matthew</pre>														
	220>			rseud	opiecc	ania	mg	. С.1.								
	L <221>			CDS												
22	2 <222>	<222> LOCATION: (10)(531)														
	<400> SEQUENCE: 1															
	gaattcaaa atg gtc aac ttc acc acc ctc ctc ccg gtt ctt gcc gct ctt Met Val Asp Phe Thr Thr Leu Leu Pro Val Leu Ala Ala Leu															
26 2'																
	, att g	_	acc :	aat d	_	act	cat	atc	tac			tcc	atc	aac	99	
) Ile G		-	_			_	_					-			
	L 15	_		2					25	_				30		
	gat g														147	
	Asp V	al Thr			ly Thr	Ser	Asn	_	Lys	Ala	Val	Ala		Ser		
35		++ ~~~		35 ata a		at a	200	40	taa	at a	at a	999	45 t at	at t	195	
	7 agt a [.] 3 Ser I														195	
39		ic hia	50	Val A	SP FIO	vai	55	DCI	DCI	Val	vai	60	DCI	Vai		
4:	L cag g	tc cct	aac	ttc a	ct gcc	act	gac	gtc	ccc	act	ttt	act	gcc	acc	243	
42	Gln V	al Pro	Asn 1	Phe T	hr Ala	Thr	Asp	Val	Pro	Thr	Phe	Thr	Ala	Thr		
4:	-	65				70					75					
	gac a				-		_	_					_	_	291	
4.	Asp II		inr	Pne T	nr Ala 85	Thr	Asp	vaı	Pro	90 11e	Pne	Thr	ьуs	гàг		
	dac c		ccc	tca a		tta	acc	cac	acc		acc	cat	acc	tct	339	
	Pro G	_				_		_		_			_		333	
	L 95				00			5	105	5				110		
53	gtt to	ca ttc	gtc 9	gct a	ag ccc	tcc	gct	ttt	att	ccc	aag	cct	tcc	gcg	387	
54	l Val S	er Phe	Val 2	Ala L	ys Pro	Ser	Ala	Phe	Ile	Pro	Lys	Pro	Ser	Ala		
55				115				120					125			
	7 agc a		-		_	_			-		_		_	-	435	
	Ser T	nr Ile		ser L	ys Pro	Lys		Pro	GIu	Glu	val		ьуs	Cys		
59	1		130				135					140				

RAW SEQUENCE LISTING DATE: 05/01/2006
PATENT APPLICATION: US/10/576,528 TIME: 10:51:53

Input Set : A:\01-SQ Listing-19 Apr 2006.txt
Output Set: N:\CRF4\05012006\J576528.raw

				рį											agc Ser 155				. 4	83
	65			1 '											gct Ala				5	31
	69 71 74	gta <21	gaa 999 0>	ct(ga(SE(gg t Q ID		itgga 2		ggga	atggt :taag					ggtgg	l∍ä" ä	agr <u>í</u>	Mådës		591 529
	76 77	<21 <21	2> 3>	TY:	PE: GANI	PRT	Pseu	ıdopl	.ecta	ania	nigı	cella	ı						٠	•
	82	1					5					10			Ala Val		15			
	86 89			r	Ser	20				Asp	25				Ser	30 Ser				
	94		50	a `		_			55					60	45 Ser	Val	Gln			
	98	65						70	_				75		Ala Lys			80 Gln		-
	102 105	Gl	n P	ro	Ser	Thr		ı Leı	ı Thi	r Arg	Th:	_	g Thi	r His	s Ala	Ser 110		l Ser		
	110)			115	;				120)				125	5		Thr Asp		
	114 11	<u> </u>	1 .a V	30		_		_	135 Thi	5				140 Sei)			y Val 160		
	123 123	L Va	1 A			Glu D NO	165	Cys		ı Sei	Glı	170	g Ala		ı Cys	ту1	:			
	126 12	5 <2 7 <2	11> 12>	L T	ENGT YPE:	H: 3	31 A	vud or	al eat	tania	ni.	rrell	la							
W>	13: 13 :	L <2 2 <2	20> 21>	F	EATU AME /	JRE: ' KEY :	mia	c_fe	eatu					L						
	139 139 139 140	5 <4 5 ga 9 <2 0 <2	00> cat 10>	s cg s L	EQUE ttg EQ I ENGI	NCE:	gagag D: 4 34			gacad	cg a									31
	142	2 <2	13>	0		ISM:		eudop	plect	tania	a nig	grell	la							

RAW SEQUENCE LISTING DATE: 05/01/2006
PATENT APPLICATION: US/10/576,528 TIME: 10:51:53

Input Set : A:\01-SQ Listing-19 Apr 2006.txt
Output Set: N:\CRF4\05012006\J576528.raw

W--> 146 <221> NAME/KEY: misc_feature Primer NP887D1 147 <222> LOCATION: (1)..(34) 149 <400> SEQUENCE: 4 34 150 acatecteeg geaceteeaa tgacaaggee gteg 153 <210> SEQ ID NO: 5 154 <211> LENGTH: 21 155 <212> TYPE: DNA 156 <213> ORGANISM: Artificial 158 <220> FEATURE: 159 <223> OTHER INFORMATION: Primer PNA2I 162 <220> FEATURE: W--> 163 <221> NAME/KEY: misc feature Primer PNA2I 164 <222> LOCATION: (1)..(21) 166 <400> SEQUENCE: 5 167 gtttccaact caatttacct c 21 170 <210> SEQ ID NO: 6 171 <211> LENGTH: 32 172 <212> TYPE: DNA 173 <213> ORGANISM: Artificial 175 <220> FEATURE: 176 <223> OTHER INFORMATION: Primer NP887Dau1 179 <220> FEATURE: W--> 180 <221> NAME/KEY: misc_feature Primer NP887Dau1 181 <222> LOCATION: (1)..(32) 183 <400> SEQUENCE: 6 32 184 ccaaagcttt tcatcctccg gcacctccaa tg 187 <210> SEQ ID NO: 7 188 <211> LENGTH: 32 189 <212> TYPE: DNA 190 <213> ORGANISM: Artificial 192 <220> FEATURE: 193 <223> OTHER INFORMATION: Primer N887Dau2 196 <220> FEATURE: W--> 197 <221> NAME/KEY: misc feature Primer NP887Dau2 198 <222> LOCATION: (1)..(32) 200 <400> SEQUENCE: 7 32 201 gcgaagetta atettaetee ateteacete ce 204 <210> SEQ ID NO: 8 205 <211> LENGTH: 573 206 <212> TYPE: DNA 207 <213> ORGANISM: Pseudoplectania nigrella 210 <220> FEATURE: 211 <221> NAME/KEY: CDS 212 <222> LOCATION: (1)..(570) 213 <223> OTHER INFORMATION: Positions 1-57 Candida lipase signal peptide, positions 58-147 Candida lipase sequence, positions 148-570 P. nigrella CBM 214 polypeptide. 215 217 <400> SEOUENCE: 8 218 atg aag cta ctc tct ctg acc ggt gtg gct ggt gtg ctt gcg act tgc 48

RAW SEQUENCE LISTING DATE: 05/01/2006
PATENT APPLICATION: US/10/576,528 TIME: 10:51:53

Input Set : A:\01-SQ Listing-19 Apr 2006.txt
Output Set: N:\CRF4\05012006\J576528.raw

				_	_	_	1									_		
		Lys	Leu	Leu		Leu	Thr	Gly	Val		Gly	Val	Leu	Ala		Cys		
220					5					10	•				15		_	
				act													5	6
•	Val	Ala	Ala	Thr	Pro	Leu	Val	ьуs	_	Ата	Thr	ser	GIA		Tyr	GIY		
224				20					25					30				
				ccg													14	4
	Leu	. ^a .).a		Pro	Pro	Arg	Pro		Arg	Ile	Leu	GIY		. Ļeu	Sex	The		
228			35					40					45					
				ggc				_	_	_	_				-		19	92
	Ser		Ser	Gly	Thr	Ser		Asp	Lys	Ala	Val		Ser	Ser	Ser	Ile		
232		50					55					60						
				gac													24	10
		Ala	Val	Asp	Pro		Thr	Ser	Ser	Val		Ala	Ser	Val	Gln			
236						70					75					80		
				act													28	88
239	Pro	Asn	Phe	Thr	Ala	Thr	Asp	Val	Pro		Phe	Thr	Ala	Thr	_	Ile		
240					85					90					95			
				act													33	36
243	Pro	Thr	Phe	Thr	Ala	Thr	Asp	Val	Pro	Ile	Phe	Thr	Ŀys	$\text{L}\Sigma$ 2	Pro	Gln		
244				100					105					110				
	_			act		_		_		_			_		_		38	34
247	Gln	Pro	Ser	Thr	Leu	Leu	Thr	Arg	Thr	Arg	Thr	His	Ala	Ser	Val	Ser		
248			115					120					125					
250	ttc	gtc	gct	aag	CCC	tcc	gct	ttt	att	CCC	aag	cct	tcc	gcg	agc	aca	43	32
251	Phe	Val	Ala	Lys	Pro	Ser	Ala	Phe	Ile	Pro	Lys	Pro	Ser	Ala	Ser	Thr		
252		130					135					140						
254	atc	ccg	tca	aag	CCC	aag	act	CCC	gaa	gag	gtt	aat	aag	tgc	ctt	gac	48	30
255	Ile	Pro	Ser	Lys	Pro	Lys	Thr	Pro	Glu	Glu	Val	Asn	Lys	Cys	Leu	Asp		
256	145					150					155					160		
				gcc													52	28
259	Ala	Val	Asn	Ala	Cys	Ile	Thr	Gln	Ala	Gln	Ser	Ser	Ile	Gly	Gly	Val		
260					165					170					175			
262	gtc	aac	ttt	gag	cct	tgc	gag	agc	cag	aga	gct	ctt	tgc	tat	tag		57	73
263	Val	Asn	Phe	Glu	Pro	Cys	Glu	Ser	Gln	Arg	Ala	Leu	Cys	Tyr				
264				180					185					190				
267	<210	0 > SI	EQ II	ON C	: 9													
268	<21	1> L	ENGT	H: 19	90													
269	<212	2> T	YPE:	PRT														
270	<213	3 > OI	RGAN:	ISM:	Pset	idop.	lecta	ania	nig	rella	a							
272	<400	0 > SI	EQUEI	NCE:	9													
274	Met	Lys	Leu	Leu	Ser	Leu	Thr	Gly	Val	Ala	Gly	Val	Leu	Ala	Thr	Cys		
275	1				5					10					15			
278	Val	Ala	Ala	Thr	Pro	Leu	Val	Lys	Cys	Ala	Thr	Ser	Gly	His	Tyr	Gly		
279				20					25					30				
282	Leu	Ala	Arg	Pro	Pro	Arg	Pro	Gln	Arg	Ile	Leu	Gly	Ile	Leu	Ser	Phe		
283			35					40	_				45					
286	Ser	Ser	Ser	Gly	Thr	Ser	Asn	Asp	Lys	Ala	Val	Ala	Ser	Ser	Ser	Ile		
287		50		_			55	-	-			60						
	Ala	Ala	Val	Asp	Pro	Val	Thr	Ser	Ser	Val	Val	Ala	Ser	Val	Gln	Val		
				-														

RAW SEQUENCE LISTING DATE: 05/01/2006
PATENT APPLICATION: US/10/576,528 TIME: 10:51:53

Input Set : A:\01-SQ Listing-19 Apr 2006.txt
Output Set: N:\CRF4\05012006\J576528.raw

2	91	65					70					75					80
2	94	Pro	Asn	Phe	Thr	Ala	Thr	Asp	Val	Pro	Thr	Phe	Thr	Ala	Thr	Asp	Ile
2	95					85					90					95	
2	98	Pro	Thr	Phe	Thr	Ala	Thr	Asp	Val	Pro	Ile	Phe	Thr	Lys	Lys	Pro	Gln
2	99				100					105					110		
3	02	Gln	Pro	Ser	Thr	Leu	Leu	Thr	Arg	Thr	Arg	Thr	His	Ala	Ser	Val	Ser
3	03			115					120.					125			
٦ 3	06	Phe	Val	Ala	Lys	Pro	Ser	Ala	Phe	Ile	${\tt pro}$	Lys	Pro	Ser	Ala	Ser	Thr
3	07		130					135					140				
3	10	Ile	Pro	Ser	Lys	Pro	Lys	Thr	Pro	Glu	Glu	Val	Asn	Lys	Cys	Leu	Asp
3	11	145					150					155					160
3	14	Ala	Val	Asn	Ala	Cys	Ile	Thr	Gln	Ala	Gln	Ser	Ser	Ile	Gly	Gly	Val
3	15					165					170					175	
3	18	Val	Asn	Phe	Glu	Pro	Cys	Glu	Ser	Gln	Arg	Ala	Leu	Cys	Tyr		
3	19				180					185					190		

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 05/01/2006 PATENT APPLICATION: US/10/576,528 TIME: 10:51:54

Input Set : A:\01-SQ Listing-19 Apr 2006.txt
Output Set: N:\CRF4\05012006\J576528.raw

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:5,6,7

VERIFICATION SUMMARYDATE: 05/01/2006PATENT APPLICATION: US/10/576,528TIME: 10:51:54

Input Set: A:\01-SQ Listing-19 Apr 2006.txt
Output Set: N:\CRF4\05012006\J576528.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application No
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:132 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:3
L:146 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:4
L:163 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:5
L:180 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:6
L:197 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:7

100